	A	В
1		ABLE 1 - 12/28
2		QC SAMPLING DENTIAL GROU
3	DIMOCK RESI	30 18,
4		
5		ort Meade L
6 7	Parameter/Method	Matrix
H	Alkalinity (SM 2320B) (Total Hardness, HCO3, CO3) (2320B, 2340B)	drinking water
9	Alcohols: Ethanol, methanol, 1-propanol, 1-butanol, 2-butanol (8015D)	drinking water
10	Anions, Chloride, Bromide, Fluoride, Nitrate/Nitrite as N, Orthophosphorus as P, Sulfate as SO4 (300.0)	drinking water
11	Glycols incl. 2-Butoxyethanol (8321 Modified)	drinking water
12	Ethylene Glycol (8015M)	drinking water
13	2-Methoxyethanol (8015B)	drinking water
	Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Tl, U, VK, Hg (200.8/245.1)	drinking water
	Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Tl, U, VK, Hg (200.8/245.1)	drinking
16	pH (9040C)	drinking water
17	Phosphorus, Total (365.1)	drinking water
18	Nitrate/Nitrite (353.2)	drinking water
19	Semi-Volatiles (TCL plus TICs) (CLP Trace plus TICS) (OLC03.2)	drinking water
20	1-methylnapthalene (8270 or equivalent)	drinking water
21	Volatiles Incl. Acrylonitrile (TCL plus TICs) (CLP Trace - 0.5 ug/L QL) (OLC03.2)	drinking water armking
-	Oil & Grease (HEM) (1664A)	arriking
-	Solids, Total Dissolved (TDS) (2540C)	arriking
-	Solids, Total Suspended (TSS) (2540D)	water
25		Key:

	A	В
26	1. This QA sample will be an aqueous matrix.	Bkgd = Backg
27	2. Sample to be collected only if non-dedicated sampling equipment is used.	MS/MSD = Ma
28		CRQL = Contra
29		Dup = Duplica

	A	В
30	Т	ABLE 1 - 12/28
31	FIELD AND	O QC SAMPLING
32	DIMOCK RESI	DENTIAL GROU
	DIMOCK, SUSQU	EHANNA COUN
33		
34	EF	PA Region 9
35		
36	Parameter/Method	Matrix
	Dissolved Gases, Methane, Ethane, & Ethene (RSK-175)	drinking
37		water urmking
-	DRO (8015M)	umaknig
39	GRO (8015M)	water
40	Notes.	Key:
41	1. This QA sample will be an aqueous matrix.	Bkgd = Backg
42	2. Sample to be collected only if non-dedicated sampling equipment is used.	MS/MSD = Ma
	3. Estimate based on 5 sampling days	CRQL = Contra
44		Dup = Duplica

	A	В
45	1	TABLE 1 - 12/28
46	FIELD ANI	D QC SAMPLING
47	DIMOCK RES	IDENTIAL GROU
	DIMOCK, SUSQU	EHANNA COUN
48		
	E	PA Region 2
49		
50	Parameter/Method	Matrix
51	T drainetely Wethou	011 007 700 0000 00000 00000
52	Methylene Blue Active Substances (MBAS) (SM 5540C)	uninking
53	Notes.	Key:
54	1. This QA sample will be an aqueous matrix.	Bkgd = Backg
55	2. Sample to be collected only if non-dedicated sampling equipment is used.	MS/MSD = Ma
	3. Estimate based on 5 sampling days	CRQL = Contra
57		Dup = Duplica

	А	В
58		TABLE 1 - 12/28
59	FIELD AN	D QC SAMPLING
60	DIMOCK RES	IDENTIAL GROU
	DIMOCK, SUSQU	JEHANNA COUN
61		
62		Isotech Lat
63		
64	Parameter/Method	Matrix
65	d ¹³ C and d ² H of methane (isotech)	drinking water
66	d ¹³ C of inorganic carbon (isotech)	drinking water
67	Stable isotopes of water (O,H) (isotech)	drinking water
68	Complete compositional analysis of headspace gas (isotech)	urinking
69	Diss. gases methane, ethane, ethene (isotech)	uทักสิกา์ซ
70	Notes.	Key:
71	1. This QA sample will be an aqueous matrix.	Bkgd = Backg
72	2. Sample to be collected only if non-dedicated sampling equipment is used.	MS/MSD = Ma
	3. Estimate based on 5 sampling days	CRQL = Contra
74		Dup = Duplica

	A	В
75		TABLE 1 - 12/28
76	FIELD AN	D QC SAMPLING
77	DIMOCK RES	IDENTIAL GROU
	DIMOCK, SUSQU	
78		
		NAREL Lab
79		
80		
	Parameter/Method	Matrix
81		
82	Gamma Spec (K-40, Ra-226, Ra-228, Th-232, Th-234, U-234, U-235, U-238) (901.1)	urinking
83	Ra-226 (903.1)	uYYก่หกัก
84	Ra-228 (904.0)	uYYARAY
85	Gross Alpha/Beta (900.0)	uYYAkArig
86	Notes.	Key:
87	This QA sample will be an aqueous matrix.	Bkgd = Backg
88	2. Sample to be collected only if non-dedicated sampling equipment is used.	MS/MSD = Ma
89	3. Estimate based on 5 sampling days	CRQL = Contra
90		Dup = Duplica

	A	В
91	Т	ABLE 1 - 12/28
02	FIELD AND	OC CANADI INIC
92	FIELD AND	QC SAMPLING
93	DIMOCK RESI	DENTIAL GROU
94	DIMOCK, SUSQUI	
95	Te	chLaw Pace
96		
97	Parameter/Method	Matrix
98	Bacteria (total coliform, HPC)	drinking water
99	Turbidity, Nephelometric (180.1) (Field measurement)	drinking water
100	notes.	Key:
101	1. This QA sample will be an aqueous matrix.	Bkgd = Backg
102	2. Sample to be collected only if non-dedicated sampling equipment is used.	MS/MSD = Ma
103	3. Estimate based on 5 sampling days	CRQL = Contra
104		Dup = Duplica

	С	D	Е	F	G	Н	1	J	К	L
	/11									
3	SUMMARY	TE								
	TY, PENNSYL									
5	ab									
٦										
6	Field	Bkgd		QC	Sample Summ	nary			ield and alyses (not	
7	Samples		Dup	Trip ¹ Blanks	Rinsate ^{1'2} Blanks	Field ¹ Blanks	MS/MSD	1	MS/MSD) ³	
8	60	0	6	0	0	5	0	7	1	
9	60	0	6	0	0	5	3	7	'1	
10	60	0	6	0	0	5	0	7	1	
11	60	0	6	0	0	5	0	7	1	
12	60	0	6	0	0	5	0	7	'1	
13	60	0	6	0	0	5	0	7	'1	
14	60	0	6	0	0	5	6	7	'1	
15	60	0	6	0	0	5	6	7	1	
16	60	0	6	0	0	5	0	7	'1	
17	60	0	6	0	0	5	0	7	'1	
18	60	0	6	0	0	5	0	7	'1	
19	60	0	6	0	0	5	3	7	'1	
20	60	0	6	0	0	5	0	7	' 1	
21	60	0	6	1 per cooler	0	5	3	Coc	Blanks for olers	
22	60	0	6	0	0	5	0		'1	
23	60	0	6	0	0	5	0		'1	
24	60	0	6	0	0	5	0	7	'1	
25										

	С	D	Е	F	G	Н	1	J	K	L
26	round				QA/QC = Qua	lity assurand	ce/quality co	ontrol		
27	trix Spike/Ma	trix Spike	Duplicate		Sr = Strontium					
28	ct-Required (Quantitatio	on limit.							
29	ite									

	С	D	Е	F	G	Н	1	J	K	L
30	/11									
31	SUMMARY									
32	NDWATER SI	TE								
	TY, PENNSYL	VANIA								
33										
34	Lab									
35	Field			QC	Sample Summ	ary		Total Fi	eld and	
36	Field Samples	Bkgd	Dup	Trip ¹ Blanks	Rinsate ^{1'2} Blanks	Field ¹ Blanks	MS/MSD	100	alyses (not MS/MSD) ³	
37	60	0	6	0	0	5	0	7	1	
38	60	0	6	0	0	5	0	7	1	
39	60	0	6	0	0	5	0	7	1	
40										
41	round	-			QA/QC = Qua	lity assuran	ce/quality co	ontrol	-	
42	trix Spike/Ma	itrix Spike	Duplicate		Sr = Strontium					
	ct-Required (Quantitati	on limit.							
1 44	ite									

	С	D	E	F	G	Н	1	J	K	L
45	/11									
46	SUMMARY									
47	NDWATER SI	ITE								
	TY, PENNSYL	VANIA								
48										
	Lab									
	Lab									
49	Lab									
				QC	Sample Summ			ALCOHOLOGICA DE LA	elu anu	
49		Bkgd	Dup	QC Trip ¹	Kinsate	Field	MS/MSD	QA/QC An	alyses (not	
49 50	Field	Bkgd	Dup				MS/MSD 0	QA/QC An	alyses (not	
49 50 51	Field Samples			Trip ¹	Kinsate	Field	† 	QA/QC An	alyses (not	
49 50 51 52 53	Field Samples			Trip ¹	Kinsate	Field Blanks 5	0	QA/QC An	alyses (not	
49 50 51 52 53 54	Field Samples 60	0	6	Trip ¹	Ninsate 0	5 lity assuran	0	QA/QC An	alyses (not	
49 50 51 52 53 54 55	Field Samples 60 round trix Spike/Ma	0 atrix Spike	6 Duplicate	Trip ¹	QA/QC = Qua	5 lity assuran	0	QA/QC An	alyses (not	

	С	D	Е	F	G	Н	1	J	K	L
58	/11									
59	SUMMARY									
60	NDWATER SI	TE								
	TY, PENNSYL	VANIA								
61										
	þ									
62										
63	e: . (.)			QC	Sample Summ	ary		Total Fi	eld and	
	Field Samples	Bkgd	Dun	Trip ¹	Rinsate ^{1'2}	Field ¹	MS/MSD	QA/QC An	alyses (not	
64	Samples		Dup	Blanks	Blanks	Blanks	טפועו /פועו	including	MS/MSD) ³	
65	10	0	0	0	0	0	0	1	.0	
66	10	0	0	0	0	0	0	1	0	
67	10	0	0	0	0	0	0	1	0	
68	10	0	0	0	0	0	0	1	.0	
69	10	0	0	0	0	0	0	1	.0	
70										
71	round				QA/QC = Qua	lity assuran	ce/quality co	ontrol		
72	trix Spike/Ma	trix Spike	Duplicate		Sr = Strontium	ı				
	ct-Required (Quantitatio	on limit.							
74	ite									

	С	D	Е	F	G	Н	1	J	К	L
75	/11									
76	SUMMARY									
77	7 NDWATER SITE									
	TY, PENNSYL	VANIA								
70										
78										
79										
80	Field			QC	Sample Summ	ary		Total Fi	ield and	
	Samples	Bkgd	Dun	Trip ¹	Rinsate ^{1'2}	^{1'2} Field ¹	MS/MSD	QA/QC An	alyses (not	
81	Samples		Dup	Blanks	Blanks	Blanks	טפועו /פועו	including	MS/MSD) ³	
82	60	0	6	0	0	5	0	7	'1	
83	60	0	6	0	0	5	0	7	'1	
84	60	0	6	0	0	5	0	7	'1	
85	60	0	6	0	0	5	0	7	'1	
86										
87	QA/QC = Quality assurance/quality control									
			77.1 2005		Sr = Strontium					
	trix Spike/Ma	itrix Spike	Duplicate		Sr = Strontium					
88	trix Spike/Ma ct-Required 0				Sr = Strontium					

	С	D	E	F	G	Н	1	J	K	L
91	/11									
	SUMMARY									
93	NDWATER SI	TE								
94	TY, PENNSYL	VANIA								
95	5 Lab									
96	OC Sample Summary Total Field and									
97	Field Samples	Bkgd	Dup	Trip ¹ Blanks	Rinsate ^{1'2} Blanks	Field ¹ Blanks	MS/MSD	QA/QC Analyses (not including MS/MSD) ³		
98	60	0	6	0	0	5	0	7	'1	
99	60	0	6	0	0	5	0	7	'1	
100										
101	QA/QC = Quality assurance/quality control									
102	trix Spike/Ma	ıtrix Spike	Duplicate		Sr = Strontium					
103	sct-Required Quantitation limit.									
	ct neganica e	Zuarrereaer								

	Α	В	С	D	E TABLE 2 - 1	F	G	Н		
1										
3	SAMPLE ANALYTICAL REQUIREMENTS SUMMARY DIMOCK RESIDENTIAL GROUNDWATER SITE									
4	DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA									
5										
6	Analytical p	parameter and Method	IVIa	trix	Sample Pr	eservation	Holdir	ng Time		
7		ethanol, 1-propanol, 1-butanol, 2- utanol (8015D)	drinkin	g water	lce,	6°C	7 days			
8	Alkalin	ity (2320B, 2340B)	drinkin	g water	lce,	6°C	14	days		
9	877	nide, Fluoride, Nitrate/Nitrate as N, s as P, Sulfate as SO4 (300.0)	drinkinį	g water	lce,	6°C	28	days		
10	Bacteria	(total coliform, HPC)	drinkin	g water	Ice, 4°C (.00 if residual (8% Na2S2O3 Cl- present)	6 h	ours		
11	d13C and d2	2H of methane (Isotech)	drinkin	g water	Ice, 4°C, bi sample c	ocide pill in container	6 months			
12	d13C of ino	organic carbon (Isotech)	drinkin	g water	Ice, 4°C		6 months			
13	Complete composit	ional analysis of headspace gas (isotech)	drinkin	Ice, 4°C, biocide pill in drinking water sample container		6 months				
14	Diss. gases metha	ane, ethane, ethene (isotech)	drinkin	g water	V. 7,043	ocide pill in container	6 months			
15	Dissolved Gases, Metl	hane, Ethane, & Ethene (RSK-175)	drinkin	g water	pH<2 with HCl and cool with ice, 4°C		7 (days		
16	Ethyle	ne Glycol (8015M)	drinkin	g water	lce,	4°C	7 (days		
17	С	DRO (8105M)	drinkin	g water	Ice, 4°C			act; 40 days alysis		
18	C	GRO (8105M)	drinkin	g water	pH<2 with HCl and cool with ice, 4°C		14 days			
19	Gamma Spec (K-40, R 235	drinkin	g water		NO3 and cool ce, 4°C	6 m	onths			
20	Glycols incl.	drinkin	g water	Ice, 6°C		7 days				
21	Gross A	drinkin	g water	pH<2 with HNO3 and cool with ice, 4°C		6 months				
22		. Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, I, Co, Tl, U, V, K, Hg (200.8/245.1)	drinkin	g water	pH<2 with HNO3 and cool with ice, 4°C		6 months			
23		. Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, I, Co, Tl, U, V, K, Hg (200.8/245.1)	(filtered) dri	nking water	pH<2 with HI	NO3 and cool ce, 4°C	6 m	onths		
24	Methylene Blue Activ	re Substances (MBAS) (SM 5540C)	drinkinį	g water	lce,	4°C	48 l	nours		

	Α	В	С	D	E	F	G	Н
					pH<2, H2SO4, and cool			
25	Nitrate/Nitrite (Total N) (353.2)		drinking water		with i	ce, 4°C	7 days	
26	Oil 8 C	(UEDA) (1CCAA)	aluru (iru			D4, and cool	20	alas va
20	Oll & Gr	ease (HEM) (1664A)	arınkın	g water	With I	ce, 4°C	28	days
27		pH (9040C)	drinkin	g water	Ice	, 6°C	As soon a	as possible
28	Phosph	orus, Total (365.1)	drinkin	g water	lce,	, 6°C	28	days
					pH<2 with H	NO3 and cool		
29	R	a-226 (903.1)	drinkin	g water	with i	ce, 4°C	6 m	onths
					pH<2 with H	NO3 and cool		
30	R	a-228 (904.0)	drinkin	g water	with i	ce, 4°C	6 m	onths
31	Comi Valatilaa	(TC)	مانا ماناه		Tan	C°C	7.	Janua -
21	Semi-volatiles	(TCL plus TICs) (OLC03.2)	arınkın	g water	ice,	, 6°C	/ 0	days
32	Solids, Total D	issolved (TDS) (SM 2540C)	drinkin	g water	Ice	, 6°C	7 days	
33	Solids, Total Su	spended (TSS) (SM 2540D)	drinking water		Ice, 6°C		7 days	
							6 months	
34	Stable isotope	es of water (O,H) (Isotech)	drinking water		Ice,	Ice, 4°C		onths
35	Turbidity, I	Nephelometric (180.1)	drinking water		Ice	. 4°C	48 h	nours
36	2-Meth	oxyethanol (8015B)	drinking water		Ice, 6°C		7 c	days
37	1-methylnapth	alene (8270 or equivalent)	drinkin	g water	Ice, 6°C		7 days	
	Volatiles (TCL plus	TICs) (CLP Trace - 0.5 ug/L QL)			2 drops of 1:1 HCl, pH<2,			
38	(OLC03.	2) incl. Acrylonitrile	drinkin	g water	lce,	. 6°C	7 (days
		ll be combined into sample	bottles as a	pplicable/a	ppropriate	based on d	eterminati	on by lab(s)
-	KEY:							
-	Celsius		milliliter					
	C14 = Carbon 14		= Sodium					
	CLP = Contract Lab D13C = delta of		potential QL =					
	D2H = delta of		Sr =					
	Acid		Target					
\vdash	density		Tentativel					
$\overline{}$	HN03 = Nitric Acid		microgra					
	Heterotrophic		paramete					
			F = . G					

	1	J	K	L	М
1					
3					
4					
5				Procurement	Number
6		Sample Cont	cainer(s)	Source or Lab	
7	Three 40-m	l glass vials (Fill t space	o capacity with no head	Ft. Meade	3
8		One 500-m	I HDPE	Ft. Meade	1
9		One 500-m	I HDPE	Ft. Meade	1
10	12	5 ml Pre-sterilize	d polyproylene	Tier 4	1
11		one 1-L pol	y/TBD*	Tier 4	1
12		one 1-L pol	y/TBD*	Tier 4	1
13		one 1-L pol	y/TBD*	Tier 4	1
14		one 1-L pol	y/TBD*	Tier 4	1
15		One 40-ml g	lass vial	Tier 4	1
16	Three 40-m	l glass vials (Fill t space	o capacity with no head	Tier 4	3
17			s with teflon-lined lids		2
18	Three 40-m	l glass vials (Fill t space	o capacity with no head		3
19		One 1-Lite		Tier 4	1
20	Three 40-m	l glass vials (Fill t space	o capacity with no head	Ft. Meade	3
21		One 1-Lite	HDPE	Tier 4	1
22		One 1-Lite	HDPE	Ft. Meade	1
23		One 1-Lite	HDPE	Ft. Meade	1
24		One 500-m	I HDPE	Tier 4	1

	1	J	K	L	М
25	Two 1-Lite	er amber glass jar	Ft. Meade	2	
26	One 1-Lite	er amber glass jar	s with teflon-lined lids	Tier 4	1
27		One 250-m	l HDPE	Ft. Meade	1
20		0 400	Lupps	Ft. Meade	1
28		One 400-m	I HUPE	rt. Meade	1
29		One 1-Liter	HDPE	Tier 4	1
30		One 1-Liter	HDPE	Tier 4	1
Acci. 4450					
31	Two 1-Lite	er amber glass jar	s with teflon-lined lids	Ft. Meade	2
32		One 500-m	I HDPE	Ft. Meade	1
33		One 500-m	I HDPE	Ft. Meade	1
2.4					
34		one 1-L pol	y/TBD*	Tier 4	1
٦٠				T' 4	
35		One 250-m	I HDPE	Tier 4	1
36	T 1 1:4:		والمرابع والمرابع والمرابع	Tier 4	2
30	I WO 1-LITE	er amber glass jar	s with teflon-lined lids	Tier 4	2
37	Two 1 Lite	or ambor glass jar	s with toflon lined lide	Tier 4	2
37	TWO 1-LITE	er amber glass jar	s with teflon-lined lids	1161 4	
38	Six 40-ml gla	ss vials w/Teflon	lined cap (no head space)	Ft. Meade	6
39		·			50
40					
41					
42					
43					
44					
45					
46					
47					
48 49					
ری					